

Amendments to the Claims:

Claims 1-21. (Cancelled)

22. (Currently amended) A wheat plant selected from the group consisting of:

- (a) a wheat plant having American Type Culture Collection (ATCC) Patent Deposit Designation Number PTA-4257;
- (b) ~~a wheat plant that is a recombinant or genetically engineered derivative of the plant with ATCC Patent Deposit Designation Number PTA-4257, wherein said wheat plant comprises a polynucleotide as defined in SEQ ID NO:3;~~
- (e) — a wheat plant that is any progeny of the plant with ATCC Patent Deposit Designation Number PTA-4257, wherein said wheat plant comprises a polynucleotide as defined in SEQ ID NO:3; and
- ~~(d)(c)~~ (c) a wheat plant comprising a polynucleotide as defined in SEQ ID NO:3; and,
- ~~(e) — a wheat plant that is a descendant of any of the plants of (a) through (e)(d), wherein said wheat plant comprises a polynucleotide as defined in SEQ ID NO:3.~~

23. (Previously presented) The wheat plant of claim 70, wherein the imidazolinone herbicide is selected from the group consisting of 2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-nicotinic acid, 2-(4-isopropyl)-4-methyl-5-oxo-2-imidazolin-2-yl)-3-quinolinecarboxylic acid, 5-ethyl-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-nicotinic acid, 2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5-(methoxymethyl)-nicotinic acid, 2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5-methylnicotinic acid, and a mixture of methyl 6-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-m-toluate and methyl 2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-p-toluate.

24. (Previously presented) The wheat plant of claim 70, wherein the imidazolinone herbicide is 5-ethyl-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-nicotinic acid.

25. (Previously presented) The wheat plant of claim 70, wherein the imidazolinone herbicide is 2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5-(methoxymethyl)-nicotinic acid.

26. (Previously presented) A plant part of the wheat plant of claim 22, wherein the plant part comprises a polynucleotide as defined in SEQ ID NO:3.

27. (Previously presented) A plant cell of the wheat plant of claim 22, wherein the plant cell comprises a polynucleotide as defined in SEQ ID NO:3.

Claims 28-57. (Cancelled)

58. (Previously presented) A seed produced by the wheat plant of claim 22, wherein the seed a polynucleotide as defined in SEQ ID NO:3.

Claims 59-61. (Cancelled)

62. (Previously presented) The wheat plant of claim 22, the plant further comprises a *Triticum aestivum* IMI nucleic acid selected from the group consisting of an Imi1 nucleic acid and an Imi2 nucleic acid.

63. (Previously presented) The wheat plant of claim 62, wherein the *Triticum aestivum* IMI nucleic acid encodes an IMI polypeptide comprising a mutation in a conserved amino acid sequence selected from the group consisting of a Domain A, a Domain B, a Domain C, a Domain D and a Domain E.

64. (Previously presented) The wheat plant of claim 63, wherein the conserved amino acid sequence is a Domain E.

65. (Previously presented) The wheat plant of claim 64, wherein the mutation results in a serine to asparagine substitution as compared to a wild-type AHAS protein.

66. (Previously presented) The wheat plant of claim 22, said plant comprising two *Triticum aestivum* IMI nucleic acids.

67. (Previously presented) The wheat plant of claim 22, comprising an Imi1 nucleic acid and an Imi3 nucleic acid.

68. (Previously presented) The wheat plant of claim 22, said plant comprising three *Triticum aestivum* IMI nucleic acids.

69. (Previously presented) The wheat plant of claim 22, wherein the plant is not transgenic.

70. (Previously presented) The wheat plant of claim 22, wherein the plant comprises increased tolerance to an imidazolinone herbicide as compared to a wild-type variety of the plant.

71. (Previously presented) A seed of wheat line Krichauff IMI K-42, representative seed of said line having been deposited under ATCC Patent Deposit Designation Number PTA-4257.

72. (Previously presented) A wheat plant, or a part thereof, produced by growing a seed of wheat line Krichauff IMI K-42, representative seed of said line having been deposited under ATCC Patent Deposit Designation Number PTA-4257.

73. (Previously presented) A method for producing a hybrid wheat seed wherein the method comprises crossing a first wheat plant with a different wheat plant and harvesting the resulting hybrid wheat seed, wherein the first wheat plant is produced by growing a seed of wheat line Krichauff IMI K-42, representative seed of said line having been deposited under ATCC Patent Deposit Designation Number PTA-4257.

74. (Previously presented) A hybrid wheat seed produced by a method comprising crossing a first wheat plant with a different wheat plant and harvesting the resulting hybrid wheat seed, wherein the first wheat plant is produced by growing a seed of wheat line Krichauff IMI K-42, representative seed of said line having been deposited under ATCC Patent Deposit Designation Number PTA-4257.

75. (Previously presented) A wheat plant, or a part thereof, produced by growing a hybrid wheat seed produced by a method comprising crossing a first wheat plant with a different wheat plant and harvesting the resulting hybrid wheat seed, wherein the first wheat plant is produced by growing a seed of wheat line Krichauff IMI K-42, representative seed of said line having been deposited under ATCC Patent Deposit Designation Number PTA-4257.